



PICTURES BY TELEGRAPH.

## An Invention Which Will Be Found Useful at National Conventions.

Among the most recent uses to which electricity has been applied is that of transmitting photographs and drawings by wire.

The process is founded upon the use of electricity of varying degrees of strength, as in the telephone or, in other words, the movement of a certain lever at one end of the line causes a corresponding lever to take the same motion at the other end, similar to the telegraph key. The telephone is affected by varying sound waves; the instrument described is affected by the varying degrees of light.

The process is as follows: A picture is taken on a film composed of gelatine and bichromate of potassium, or the picture may be taken in the ordinary manner, and transferred to the sensitive stripping film from the negative.

The film is then exposed to lukewarm water. The portions which have not been exposed to the light are washed away, while the other parts are left. For example, the dark parts of a photograph represent the portion of film in relief after washing and the light parts the parts washed away. The film therefore has parts in relief, while other parts are partially or entirely removed.

The film is now stripped from the glass and placed upon a drum similar to that used in the photograph. Bearing upon the cylinder is a needle or tracing point. The cylinder is set in motion and the needle travels over the surface, or rather the surface travels under the needle. The needle, or stylus rises and falls as the varying degrees of elevation in the film pass under it, and by so doing the amount of electric current transmitted to the receiving instrument is regulated.

The entire success of the machine depends upon the possibility of varying the current as the elevations and depressions vary in the film. This is attained by means of a lever which is attached to the stylus or needle, which, in turn actuates a series of levers having platinum points. As the stylus is raised a greater or less degree the number of levers depressed is increased or lessened.

The receiving instrument is identical with the transmitting machine, except that a graving tool is substituted for the stylus on the transmitter. The cylinder of the receiver is covered with wax, which is turned down smooth.

The needle of the transmitter, as it meets a low point in the film, presses upon a number of levers, and a degree of current is sent over the wire which so affects the magnet of the receiver that the graving point cuts a deep mark, and vice versa. The needle having traveled the full length of the picture, it is removed from the cylinder and carefully cut, spread out flat, and the picture appears in lines of different depth.

The inventor claims to be able to reproduce photos on papier mache that may be used directly for printing. The arrangement is such that by a change of gears reproductions of different sizes may be made. Hand sketches may also be sent in half tone. The inventor also claims that the depth of reproduction can be increased 100 per cent. above the greatest depth of the ordinary half tone sketches.—Electricity.

## The First Gun of the War.

Wallace Hight, of Bloomington, Ind., has written a letter to Quartermaster Pope and also one to Mr. George J. Langdale inquiring about a gun he made in the spring of 1861, which now seems to be lost. The gun is a smooth bore bronze six-pounder, just the same as a regular government gun, but has no government brand on it. It was made of the same metals, however—copper and tin—and Mr. Hight says it can be recognized by some flaws near the muzzle. The government never accepts a gun with flaws. The nails inside the ammunition chest are iron, plated with copper, because at the time Mr. Hight could not secure copper nails. He made the gun at the instance of Governor Morton, and it was the first gun made to put down the war. The last Mr. Hight heard of the gun was in this city, and that was at the close of the war. Major Pope will try hard to unearth it.—Indianapolis Journal.

## Vanished with a Plunger's \$1,000.

On Wednesday afternoon a plunger at the fair grounds race track who had made several displays of large sums of money offered to put \$1,000 on a horse. He had the money in his hand, and waved it above his head. He seemed to be very careless with the money, which he placed between his fingers for convenience. When he ceased waving the bills above his head, he placed his hand at his side and started to walk away. As he did this a sneak thief seized the money and ran. The thief easily worked his way through the crowd and disappeared in the twinkling of an eye.—St. Louis Globe-Democrat.

## A Musical Snake.

A musical snake has just made its appearance over in Bartow county, in Hon. Tom Lyon's community. It was seen last Sunday afternoon wearing a lace scarf and carrying a gold headed cane. It had a brown mustache like Lord Beresford and stood up in the road and sang "Comrades" and "When the Owls Nest Again."—Rome (N. Y.) Tribune.

## Quick Delivery.

Last year there were over two and a half millions of pieces sent by special delivery, and it is interesting to note that the average time consumed in the delivery of each parcel after it reached the postoffice of the addressee was only twenty minutes.—Kate Field's Washington.

## Mounds in Wisconsin.

T. H. Lewis, an archaeologist from St. Paul, is looking up the mounds in the vicinity of Menasha, Wis. Within a mile and a half south of the dock in Clinton he has discovered thirty mounds, twenty-one of which are effigies. On Steinhagen's farm he found one built four feet high, the body of which is forty-five and the tail 280 feet long. He found one group near these of thirteen mounds, eleven of which were effigies. Five of them represented birds and six long tailed animals. Another and the largest one he found is 120 feet long and covers 400 square yards.

Mr. Lewis does not attempt to classify the animals that they were intended to represent. He found one peculiar mound where the hind legs of the animal were jointed and bent forward, and the excavation between the legs and the body is distinct. Mr. Lewis says he does not think any of them were built by the Indians, but wholly by the mound builders. That they were used for burial purposes there is no doubt, but he thinks it more likely for a village or for a family than for the killed in battle. In some of the largest ones he has found parts of but one or two skeletons, while in smaller ones there are signs of a large number being buried there. He has concluded from his observations that the mound builders endeavored to preserve some of the bones of the human body to be used in the hereafter.

On Senator Vilas' farm near Prairie du Chien, Wis., Lewis found seven mounds, four round, one representing a long tailed animal, one a bird and one club shaped mound.—Cor. Chicago News.

## Deaf Mutes in Congress.

The congress of deaf mutes in Hanover—a congress of which "no president's bell opened the sittings, no animated debates excited the hearers and deep silence reigned throughout"—was the first congress of the deaf and dumb held in Germany, and discussion was carried on and resolutions passed in the language of the fingers. One of the "speakers" stated that there were about 90,000 deaf mutes in Germany who had mostly to work hard for their bread. It was to be regretted that many employers refused to take them into their service. Technical schools on the pattern of those existing in the United States, where also grammar schools and even universities existed at which deaf mute teachers were employed, should be introduced into Germany.

Another "speaker" pleaded for the education of deaf mute traveling preachers, so that their fellows might enjoy the benefits of divine service in their language. The most important subject discussed was as to whether the new method of lip reading or the old language of gesture was to be preferred. One speaker pointed out that to attempt to converse altogether by reading the lips would not do, on account of the great fatigue and exertion caused by incessantly watching the mouth of the speaker, which had an almost hypnotic effect. Both methods, he thought, should be taught.—Cor. London News.

## An Experimental Voyage.

An experimental voyage which, though its main object is commercial, is not without interest of a more general kind, is to be undertaken by Captain Gray, of Peterhead, the well known arctic whaler. Captain Gray is of opinion that the value of the antarctic seas as a whaling ground has never been properly tested, and he has succeeded in raising the capital necessary for prosecuting an experimental voyage with a couple of vessels of some 400 or 500 tons register, propelled by auxiliary engines of seventy or eighty horse power nominal. A statement issued by Captain Gray and his brother contains numerous extracts from the literature on the antarctic regions as evidence that there is a reasonable prospect of developing a new and important fishing industry in the southern seas.—Science.

## Intellectual Talk at the Derby.

The cold at Ascot was at times terrific, and much alarm was caused by the threatening appearance of the weather. But these annoyances were really only blessings in disguise, since they together furnished sufficient matter for conversation. The following stereotyped but not highly original remarks could be overheard at every step: She or He—Isn't it bitterly cold? He or She—Awful, but not so bad as it was yesterday. She or He—I do hope it won't rain. He or She—Oh, I think it will keep up!

As examples of the brilliant conversational efforts of the educated classes in England toward the close of the Nineteenth century, the foregoing is, I think, a very important specimen.—London Truth.

## Became a Mother on Her 70th Birthday.

Dr. E. S. Warlick reports a case of childbirth in the South Mountain section of Burke county, N. C., which is one of the most remarkable on record. If we except the scriptural story of Sarah, Mrs. William E. Smith, of Upper Fork township, gave birth to a child, a circumstance which would have created very little comment in the South Mountain had it not been that the day on which the child was born happened to be Mrs. Smith's seventieth birthday. The child was alive and well formed, and the physicians all say this beats the record.—Cor. Atlanta Constitution.

## Keep the Head Cool.

Keep the head moist while exposed to the sun on hot days. "A cabbage leaf in the hat" was the old time prescription, and it was a good one, but our gilded youth can substitute rose leaves and do as well, if only they have enough of them.—Men's Outfitter.

## England's Bank Notes.

The Bank of England note is 5 inches by 8 in dimensions and is printed in black ink on Irish linen watermarked paper, plain white, with ragged edges.—Golden Days.



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